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Product datasheet for SC122656

VASP (NM_003370) Human Untagged Clone

Product data:

Product Type:	Expression Plasmids
Product Name:	VASP (NM_003370) Human Untagged Clone
Tag:	Tag Free
Symbol:	VASP
Mammalian Cell Selection:	None
Vector:	pCMV6-XL5
E. coli Selection:	Ampicillin (100 ug/mL)

Fully Sequenced ORF:

>OriGene sequence for NM_003370 edited
GCAAGGGGTGCGCGCTGGGGAGCGGACGCTGCATCCCCTTTCTGCTGCAGGAACCTCTCA
TCAGACCGCCTGAGGGAAGCGGCGCCCGGAGACCCGCCCCGGCCCGGTCCACATTCTCCC
CAGGAAGCCGGACTCTATGGGGCGGGACCCTGGGGGAGCCTGAGCCGAGCCCGGAGCCAG
CCCCGAACCCCTGAACCTCCAGCCAGGGGCGCCCCGGGAGCAGCCAGCCCGTGGGCGAGC
CGCCCGCCCGCCGAGCAGCCATGAGCGAGACGGTCATCTGTTCCAGCCGGGCCACTGTGA
TGCTTTATGATGATGGCAACAAGCGATGGCTCCCTGCTGGCACGGGTCCCCAGGCCTTCA
GCCGCGTCCAGATCTACCACAACCCCACGGCCAATTCCTTTCGCGTCGTGGGCCGGAAGA
TGCAGCCCGACCAGCAGGTGGTCATCAACTGTGCCATCGTCCGGGGTGTCAAGTATAACC
AGGCCACCCCCAACTTCCATCAGTGGCGCGACGCTCGCCAGGTCTGGGGCCTCAACTTCG
GCAGCAAGGAGGATGCGGCCCAGTTTGCCGCCGGCATGGCCAGTGCCCTAGAGGCGTTGG
AAGGAGGTGGGCCCCCTCCACCCCCAGCACTTCCCACCTGGTCGGTCCCGAACGGCCCCT
CCCCGGAGGAGGTGGAGCAGCAGAAAAGGCAGCAGCCCGGCCCGTCGGAGCACATAGAGC
GCCGGGTCTCCAATGCAGGAGGCCCACCTGCTCCCCCCGCTGGGGGTCCACCCCCACCAC
CAGGACCTCCCCCTCCTCCAGGTCCCCCCCCACCCCCAGGTTTGCCCCCTTCGGGGGTCC
CAGCTGCAGCGCACGGAGCAGGGGGAGGACCACCCCCTGCACCCCCTCTCCCGGCAGCAC
AGGGCCCTGGTGGTGGGGGAGCTGGGGCCCCAGGCCTGGCCGCAGCTATTGCTGGAGCCA
AACTCAGGAAAGTCAGCAAGCAGGAGGAGGCCTCAGGGGGGCCCACAGCCCCCAAAGCTG
AGAGTGGTCGAAGCGGAGGTGGGGGACTCATGGAAGAGATGAACGCCATGCTGGCCCGGA
GAAGGAAAGCCACGCAAGTTGGGGAGAAAACCCCCAAGGATGAATCTGCCAATCAGGAGG
AGCCAGAGGCCAGAGTCCCGGCCCAGAGTGAATCTGTGCGGAGACCCTGGGAGAAGAACA
GCACAACCTTGCCAAGGATGAAGTCGTCTTCTTCGGTGACCACTTCCGAGACCCAACCCT
GCACGCCCAGCTCCAGTGATTACTCGGACCTACAGAGGGTGAAACAGGAGCTTCTGGAAG
AGGTGAAGAAGGAATTGCAGAAAGTGAAAGAGGAAATCATTGAAGCCTTCGTCCAGGAGC
TGAGGAAGCGGGGTTCTCCCTGACCACAGGGACCCAGAAGACCCGCTTCTCCTTTCCGCA
CACCCGGCCTGTCACCCTGCTTTCCCTGCCTCTACTTGACTTGGAATTGGCTGAAGACTA
CACAGGAATGCATCGTTCCCACTCCCCATCCCACTTGGAAAACTCCAAGGGGGTGTGGCT
TCCCTGCTCACACCCACACTGGCTGCTGATTGGCTGGGGAGGCCCCCGCCCTTTTCTCCC
TTTGGTCCTTCCCCTCTGCCATCCCCTTGGGGCCGGTCCCTCTGCTGGGGATGCACCAAT
GAACCCCACAGGAAGGGGGAAGGAAGGAGGGAATTTCACATTCCCTTGTTCTAGATTCAC
TTTAACGCTTAATGCCTTCAAAGTTTTGGTTTTTTTAAGAAAAAAAAATATATATATATT
TGGGTTTTGGGGGAAAAGGGAAATTTTTTTTTCTCTTTGGTTTTGATAAAATGGGATGTG
GGAGTTTTTAAATGCTATAGCCCTGGGCTTGCCCCATTTGGGGCAGCTATTTAAGGGGAG
GGGATGTCTCACCGGGCTGGGGGTGAGACATCCCCCCACCCCAGGGACTCCCCTTCCCTC
TGGCTCCTTCCCCTTTTCTATGAGGAAATAAGATGCTGTAACTTTTTGGAACCTCAGTTT
TTTGATTTTTTATTTGGGTAGGTTTTGGGGTCCAGGCCATTTTTTTTACCCCTTGGAGGA
AATAAGATGAGGGAGAAAGGAAAAGGGGAGGAAACTTCTCCCCTCCCACCTTCACCTTTA
GCTTCTTGAAAATGGGCCCCTGCAGAATAAATCTGCCAGTTTTTATAAAAAAAAAAAAAA
AAAAAAAAAAA

5' Read Nucleotide Sequence:

>OriGene 5' read for NM_003370 unedited
TTCGCATTAGTAATACGACTTACTATAGGGCGGCCGCGATTCCCGGATGCAAGGGTGCGC
GCTGGGGAGCGGACGCTGCATCCCCTTTCTGCTGCAGGAACCTCTCATCAGACCGCCTGA
GGGAAGCGGCGCCCGGAGACCCGCCCCGGCCCGGTCCACATTCTCCCCAGGAAGCCGGAC
TCTATGGGGCGGGACCCTGGGGGAGCCTGAGCCGAGCCCGGAGCCAGCCCCGAACCCCTG
AACCTCCAGCCAGGGGCGCCCCGGGAGCAGCCAGCCCGTGGGCGAGCCGCCCGCCCGCCG
AGCAGCCATGAGCGAGACGGTCATCTGTTCCAGCCGGGCCACTGTGATGCTTTATGATGA
TGGCAACAAGCGATGGCTCCCTGCTGGCACGGGTCCCCAGGCCTTCAGCCGCGTCCAGAT
CTACCACAACCCCACGGCCAATTCCTTTCGCGTCGTGGGCCGGAAGATGCAGCCCGACCA
GCAGGTGGTCATCAACTGTGCCATCGTCCGGGGTGTCAAGTATAACCAGGCCACCCCCAA
CTTCCATCAGTGGCGCGACGCTCGCCAGGTCTGGGGCCTCAACTTCGGCAGCAAGGAGGA
TGCGGCCCATTTTGCCGCCGGCATGGCCAGTGCCCTATAGGCGTTGGAAGGATGTGGGCC
CCCTCCACCCCCAGCACTTCCCACCTGGTCGGTCCCGAACGGCCCCTCCCCGGANGATGT
GGAGCAGCAGAAAGGCAGCAGCCCGGCCCGTCNGAGCACATAGAGCGCCGGGGTCTCAAT
GCTATGAGCCCACCTGCTCCCCCCGCTGGGGGTCCACCCCCACCACCAGTACCTCCCCCT
TCTCCAAGTTCCCCCCCACCCCCAGTTTGCCCCCTTCGGGGTTCCAACTGCAGCGCACGG
GCAGGGGGAGGACCACCCCTGGCCCCCCTT

Restriction Sites: Please inquire

ACCN: NM_003370

Insert Size: 2231 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in E. coli are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. More info

Components: The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).

Reconstitution Method:
1. Centrifuge at 5,000xg for 5min.
2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.
3. Close the tube and incubate for 10 minutes at room temperature.
4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.
5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.

RefSeq: NM_003370.3, NP_003361.1

RefSeq Size: 2298 bp

RefSeq ORF:	1143 bp
Locus ID:	7408
UniProt ID:	P50552
Cytogenetics:	19q13.32
Protein Families:	Druggable Genome, Stem cell - Pluripotency
Protein Pathways:	Fc gamma R-mediated phagocytosis, Focal adhesion, Leukocyte transendothelial migration
Gene Summary:	Vasodilator-stimulated phosphoprotein (VASP) is a member of the Ena-VASP protein family. Ena-VASP family members contain an EHV1 N-terminal domain that binds proteins containing E/DFPPPPXD/E motifs and targets Ena-VASP proteins to focal adhesions. In the mid-region of the protein, family members have a proline-rich domain that binds SH3 and WW domain-containing proteins. Their C-terminal EVH2 domain mediates tetramerization and binds both G and F actin. VASP is associated with filamentous actin formation and likely plays a widespread role in cell adhesion and motility. VASP may also be involved in the intracellular signaling pathways that regulate integrin-extracellular matrix interactions. VASP is regulated by the cyclic nucleotide-dependent kinases PKA and PKG. [provided by RefSeq, Jul 2008]